Soil Remediation Specifications

for

HAWTHORNE AUTOMATED FLIGHT SERVICE STATION

HAWTHORNE, CA

FEDERAL AVIATION ADMINISTRATION, AWP-472
15000 AVIATION BLVD.
LAWNDALE, CA 90261

August 2012

SOIL REMEDIATION SPECFICIATIONS

1.0 Introduction

This project involves the remediation of contaminated soil from the Federal Aviation Administration's (FAA) decommissioned Hawthorne Automated Flight Service Station (HHR-AFSS) facility located at the Hawthorne Municipal Airport. The facility address is 12111 Crenshaw Blvd., Hawthorne, CA 90250. The site has an active State of California Leaking Underground Storage Tank (LUST) file that is overseen by the Los Angeles County Department of Public Works (LADPW).

2.0 Background

On April 24, 1998, during trenching operations related to the installation of fuel lines for a new AST, soil staining and fuel odors were observed in a former UST fuel line trench. The new AST fuel lines were to be installed along the alignment of the former UST's fuel lines, and the former UST's fuel lines were in-place and operational at the time of trenching.

Research Management Consultants, Inc. (RMCI), a Contactor to the FAA, made observations regarding corroded fuel line piping and soil staining and fuel odors that were encountered during the fuel line excavation. Additionally, RMCI collected soil samples and excavated contaminated soil from the site. A UST closure report was prepared and submitted to LADPW in December of 2003. A copy of the RMCI report is included as Attachment A.

The Bohdi Group Inc., a Contractor to the FAA, was tasked to conduct further site investigation activities in December of 2011. These activities included the advancement of five soil borings to depths of 30 feet. Soil with elevated levels of Total Petroleum Hydrocarbons as diesel (TPH-d) was identified in the boring associated with the location of the former UST. A copy of the February 2012 Bohdi Group Inc. Site Closure Report is included as Attachment B.

In April of 2012, LADPW advised the FAA that contaminated soil at the former UST location must be remediated.

3.0 Scope of Work

Task One – Work Plan and Health and Safety Plan Preparation

The Contractor shall provide all labor, equipment, and materials to prepare a Work Plan identifying planned remediation activities. The Contractor shall communicate with LADPW case worker, Mr. John Awujo, 626-458-3507, in order to receive regulatory

input during development of the Work Plan. The Work Plan shall be submitted to the FAA and LADPW for review and approval.

The Contractor shall prepare a site-specific health and safety plan (HASP) prior to the initialization of remedial activities. The HASP shall comply with all requirements of the Occupational Safety and Health Administration (OSHA) hazardous waste operations and emergency response standard (29 CFR 1910.120) and California Code of Regulations (CCR), Title 8, Section 5192. All Contractor (and subcontractor personnel) shall adhere to all elements of the HASP. The HASP shall be submitted to the FAA for review and approval.

Task Two – Coordination Activities

After approval of the Work Plan and HASP, the Contractor shall initiate the coordination and scheduling of remedial activities. The Contractor shall perform the following coordination activities:

- Conduct a site visit to evaluate accessibility issues that may impact remedial activities.
- Coordinate with the building owner (Premier Installations) and City of Hawthorne for site access.
- Coordinate with Dig Alert and a private utility service to mark-out locations of underground utilities and subsurface structures.
- Coordinate soil sampling with subcontractors, including mobile laboratory.
- Submit profile and obtain approval from soil disposal facility.

Task Three – Soil Remediation

The Contractor shall accomplish the following tasks over a three day period from Friday - Sunday in order to not disrupt the current business operation (Premier Installations):

- Saw-cut, remove, and dispose of concrete from a 300 square-foot rectangular area above the former UST location. Concrete thickness is assumed to be 8 inches or less.
- Remove and dispose of an estimated 75 cubic yards of TPH-d contaminated soil to an estimated depth of 9 feet. All excavated soil shall be transported to the disposal facility upon removal, and temporary storage of excavated soil on-site shall not be permitted.
- Contract with a mobile laboratory for on-site analysis of TPH-d contaminants and adjust excavation limits according to laboratory results. Collect and analyze soil confirmation samples from four sides and floor of excavation at the conclusion of excavation activities.
- Install clean backfill and compact to meet airport requirements.
- Reinstall 300 square-feet of concrete with doweling and reinforcement bar.

Task Four – Groundwater Contingency

In the event groundwater is encountered, the Contractor shall pump, temporarily store, and dispose of diesel-contaminated water. Assume that the volume of encountered groundwater shall not exceed 2,000 gallons.

Task Five – Site Closure Report Preparation and Geotracker Submittals

The Contractor shall prepare a Site Closure Report that summarizes the work performed and provides recommendations and conclusions that shall lead to LADPW closure of the site. The report shall be prepared in accordance with the Los Angeles County Guidelines for Report Submittals – UST Local Oversight Program. Results of analytical laboratory testing shall be tabulated and compared to applicable action levels. Soil logs and scaled drawings, showing the locations of sample points and analytical results shall be provided in the report. Updates to the Site Conceptual Model (SCM) and Corrective Action Plan (CAP) presented in the February 2012 Bohdi Group Inc. report shall be included in the Site Closure Report.

After FAA approval of a draft copy of the report, the Contractor shall submit a final report to the LADPW. The Contractor shall upload all reports and analytical laboratory test results to the State of California Water Resources Control Board's Geotracker geographic information system (CCR, Title 23, Section 3893). The Contractor shall provide copies of the Geotracker reports to the FAA.

4.0 Submittals

The Contractor shall submit the following prior to initiating work activities:

1. Proof of insurance and Contractor license(s)
2. List of project personnel and qualifications, including 40 hour HAZWOPER certifications and 8 hour HAZWOPER refresher training certifications, PE license(s)
3. Project schedule
4. Work Plan
5. HASP

5.0 Work Restrictions

The Contractor shall restrict operations to 6:30 a.m. through 5:00 p.m., Friday through Sunday. The FAA reserves the right to adjust the work day to accommodate ongoing facility operations.

6.0 Contract Modification Procedures

All contract modifications shall be arranged with the COTR/Resident Engineer (RE) with all modifications being approved by the Contracting Officer.

7.0 Project Management and Coordination

All work schedules shall be coordinated with the COTR/RE prior to initiating work under this contract.

8.0 Document Submittal Procedures

Contractor prepared documents, including the Work Plan and HASP, shall be submitted to the COTR and LADPW for approval prior to the start of work. Site work shall not occur until the Contractor has received written approval of these documents.

9.0 Employee Wages

The Contractor, and all sub-Contractors, shall pay their employees prevailing wages.

ATTACHMENT A

ATTACHMENT B